

FLUXCOURSE 2015

A two week workshop on land-surface exchange techniques

The fluxcourse workshop will be offered July 20th-31st 2015 to 24 graduate students, postdocs and early career scientists at the University of Colorado Mountain Research Station at Niwot Ridge. For more information ask Dave Moore (University of Arizona) or any other instructor. The 2014 Syllabus is the on the website

FLUX MEASUREMENTS

- Leaf Level Gas Exchange Measurements
- Leaf Level Biochemistry (Farquhar Model)
- From Leaf to Canopy (Penman-Monteith)
- Theory and Measurement of Canopy Fluxes
- Eddy Flux Measurement, Sonics and Sensors
- Applications of Flux Tower Networks
- Using Eddy Covariance Instrumentation
- Use of Stable Isotope to Infer Fluxes
- Ecosystem Energy and Mass Fluxes

FLUX MODELLING

- The Challenge of Data and Models
- Principles of Modeling Ecosystem Fluxes
- Satellite Observations and Surface Fluxes
- Theory and Practice of Data Assimilation
- Extracting Information from Data
- Combining Multiple Data Streams
- Regional and Global Model Flux Estimates
- Informing Land Surface Models with Data
- The Global Carbon Cycle



Instructors vary each year here are some past instructors: Dennis Baldocchi (University of California), Carl Bernacchi (University of Illinois), Dave Bowling (University of Utah), Ankur Desai (University of Wisconsin), Mike Dietze (Boston University), Deborah Huntzinger (Northern Arizona University), Larry Jacobsen (Campbell Scientific, Inc.), Ray Leuning (CSIRO, Australia), Andrew Fox & Hank Loescher (NEON, Inc.), Pat Morgan and George Burba (LI-COR Biosciences), Marcy Litvak (Univ New Mexico), Russell Monson, David Moore and Shirley Papuga (University of Arizona), Tristan Quaife (Reading University), Dave Schimel (NASA JPL), Paul Stoy (Montana State), Ed Swiatek (Campbell Scientific, Inc.), Diane Pataki (UC Irvine), John Zobitz (Augsburg College), Kim Novick (Indiana University).



www.fluxcourse.org